- -- 35. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof comprising a CD3-binding domain and a Pseudomonas exotoxin (PE) mutant, said PE mutant having ADP-ribosylating and translocation functions but substantially diminished cell-binding ability. --
- -- 36. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 35 wherein the CD3-binding domain comprises an anti-CD3 antibody or CD3-binding fragment thereof. --
- -- 37. A recombinant immunotoxin polypeptide polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the anti-CD3 antibody or CD3-binding fragment thereof binds an epitope on the  $\epsilon$  chain of human CD3. --
- -- 38. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the anti-CD3 antibody or CD3-binding fragment thereof binds an epitope formed by the  $\epsilon$  and  $\gamma$  chains of human CD3. --
- -- 39. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the CD3-binding domain comprises a Fab fragment of an anti-CD3 antibody. --
- -- 40. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the CD3-binding domain comprises the Fv region, or a CD3-binding fragment thereof, of an anti-CD3 antibody. --
- -- 41. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the CD3-binding domain comprises monoclonal antibody UCHT-1 or a CD3-binding fragment thereof. --
- -- 42. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36 wherein the CD3-binding domain comprises a single chain Fv of an anti-CD3 antibody. --
- -- 43. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 35 comprising a single chain Fv of UCHT-1 fused to a PE mutant essentially deleted of its cell-binding domain. --

- -- 44. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 43 wherein the PE mutant is PE38. --
- -- 45. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 43 consisting essentially of the single chain Fv of an anti-human CD3 antibody fused via the carboxy terminus thereof to a PE mutant essentially deleted of its cell-binding domain. --
- -- 46. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 45 having the formula  $V_L$  L  $V_H$  C PE mutant. --
- -- 47. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 46 wherein  $V_L$  and  $V_H$  are derived from UCHT-1 and the PE mutant is PE38. --
- -- 48. A pharmaceutical composition comprising a recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 35 in a pharmaceutically acceptable carrier. --
- -- 49. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof, wherein the polypeptide comprises the polypeptide coded for by the nucleotide sequence shown in Figure 15 (SEQ. ID. NO:2). --
- -- 50. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof, wherein the polypeptide comprises the polypeptide encoded by the complement of a nucleotide sequence having at least 300 bases which hybridizes to the nucleotide sequence of claim 49 (SEQ. ID. NO:2) under stringent hybridization conditions. --
- -- 51. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 36, wherein the CD3-binding domain comprises the Fv region, or a CD3-binding fragment thereof of an antibody selected from: monoclonal antibody UCHT-1, an antibody having a variable region which is at least 90% identical to the variable region of UCHT-1 as determined by use of the Bestfit program and is at least about 90% as effective on a molar basis in competing with UCHT-1 for binding to human CD3 antigen and having at least one sequence segment of at least five amino acids of human origin. --
- 52. A recombinant immunotoxin polypeptide or a pharmaceutically acceptable salt thereof according to claim 51, wherein the Fv region is a single-chain Fv. --